



Two-hybrid system

X = Fusion protein

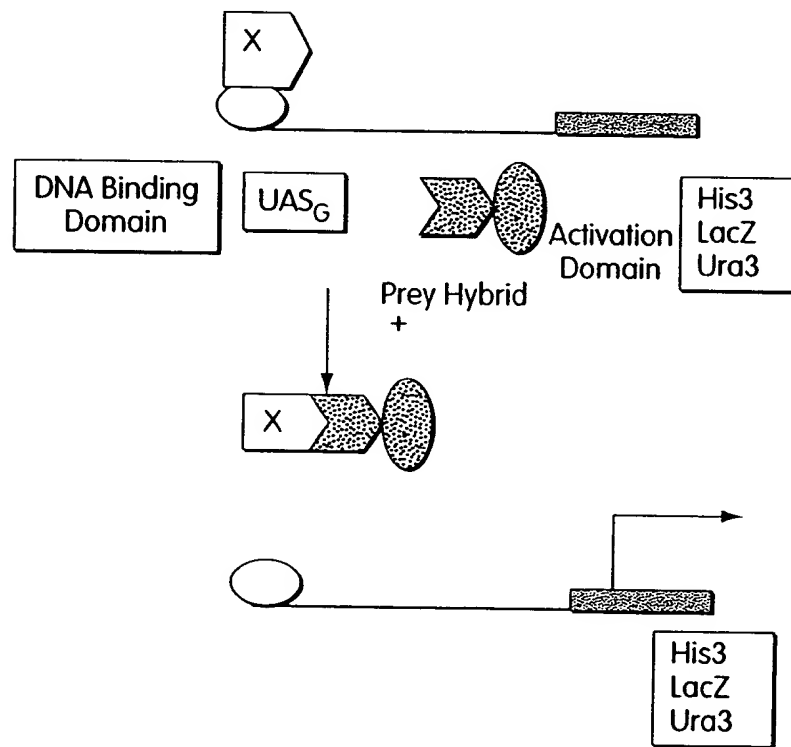


Fig. 1

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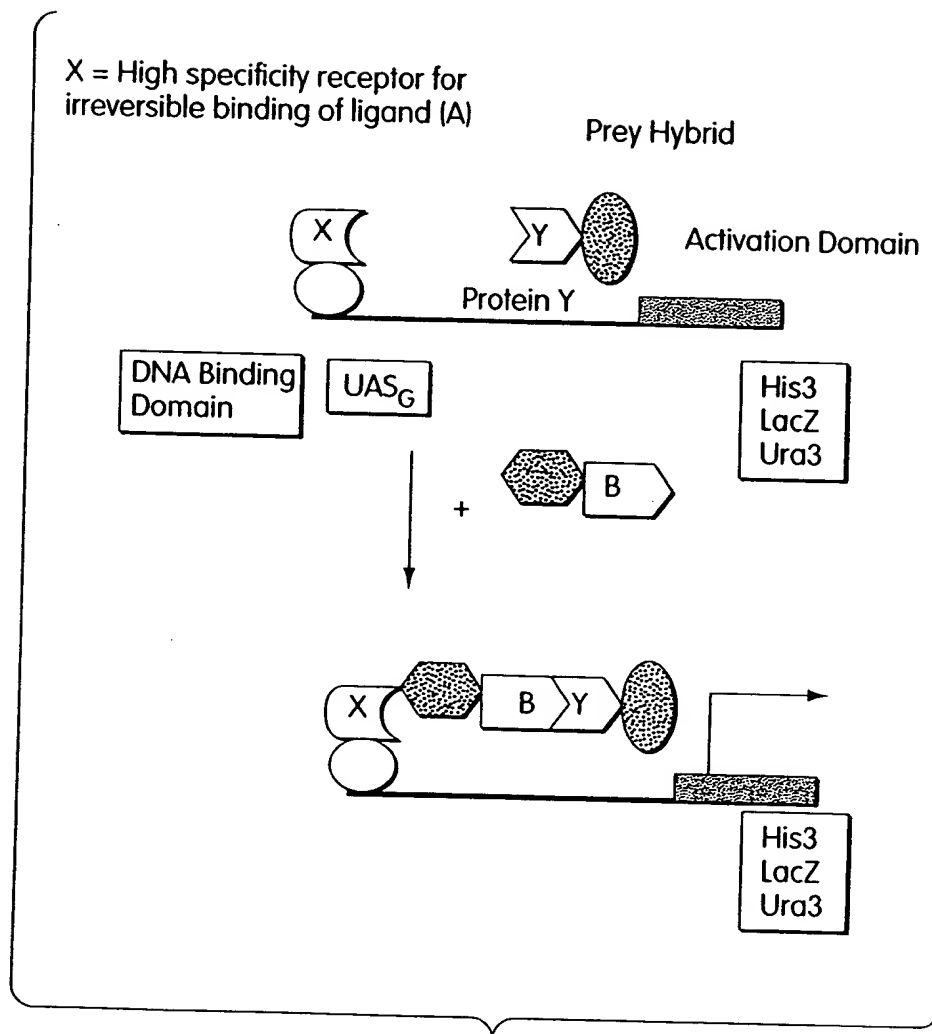
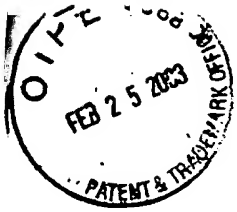
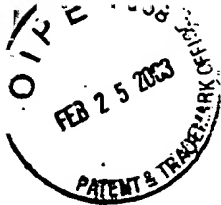
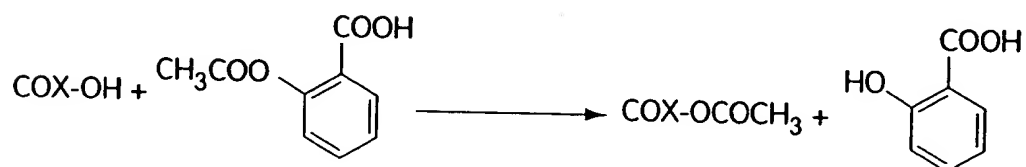


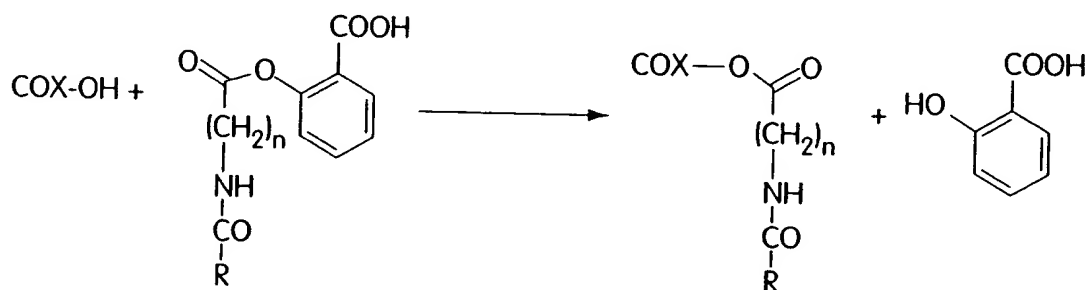
Fig. 2



Cox-Aspirin Mechanism



Example of covalent bonding of ligand to the target (Cox-Aspirin mechanism)



R = Dexamethasone: FK-506 or combinational compounds n = 0-20

Fig. 3

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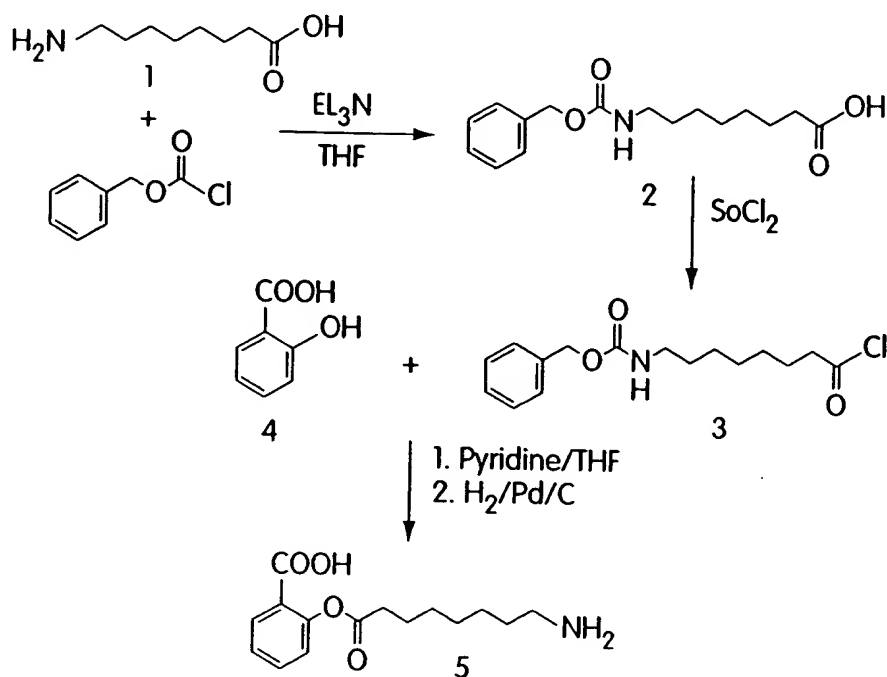
PATENT & TRADEMARK OFFICE

Docket 4 of 9

Inventor: Mehta et al
U.S.S.N.: 09/351,617Title: General Screening Method For Ligand-Protein Interactions
Docket No.: 15966-518 (CURA 18 RCB)

FIG. 4

Synthesis of aminoalkyl salicylate



Coupling of aminoalkyl salicylate to dexamethasone

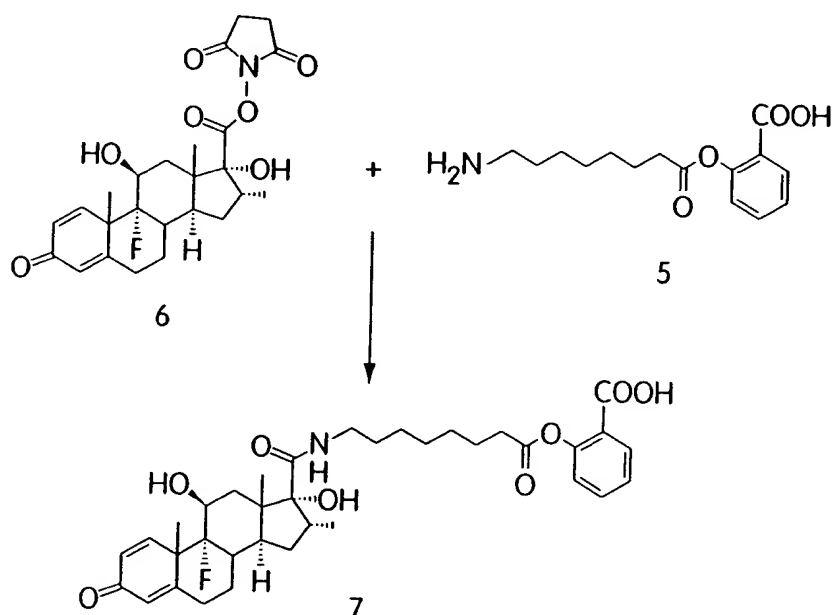
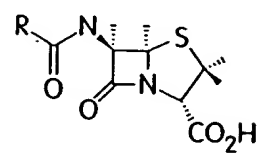


Fig. 4

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Penicillins



- a. R = PhCH₂-
 b. R = PhOCH₂-

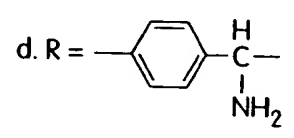
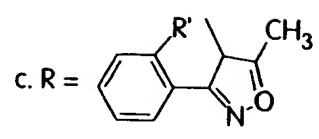
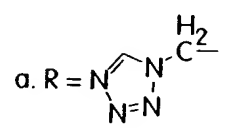
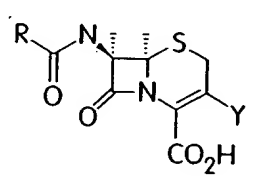
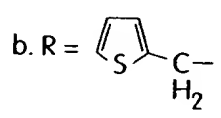
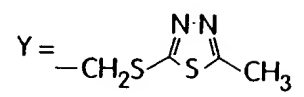


Fig. 5A

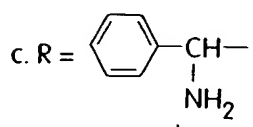
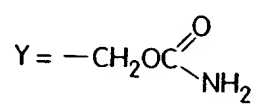
Cephalosporins / cephamycins



X = H

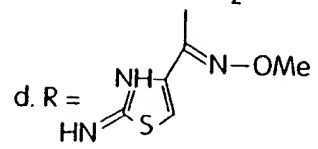


X = OCH₃



X = H

Y = Cl



X = H

Y = H

Fig. 5B

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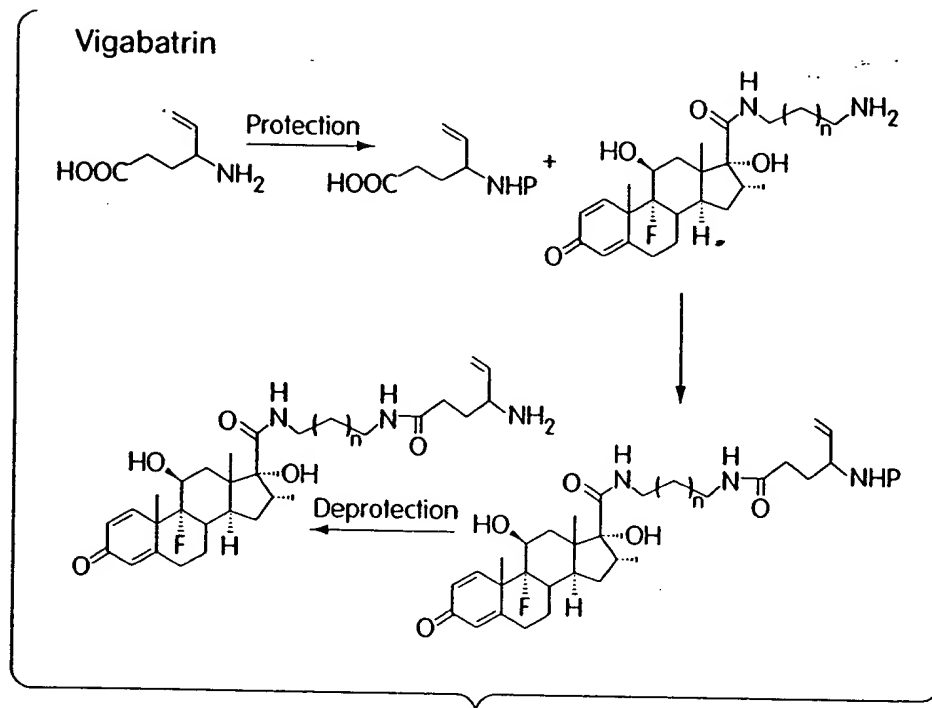
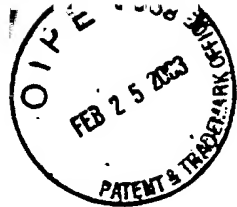


Fig. 6A

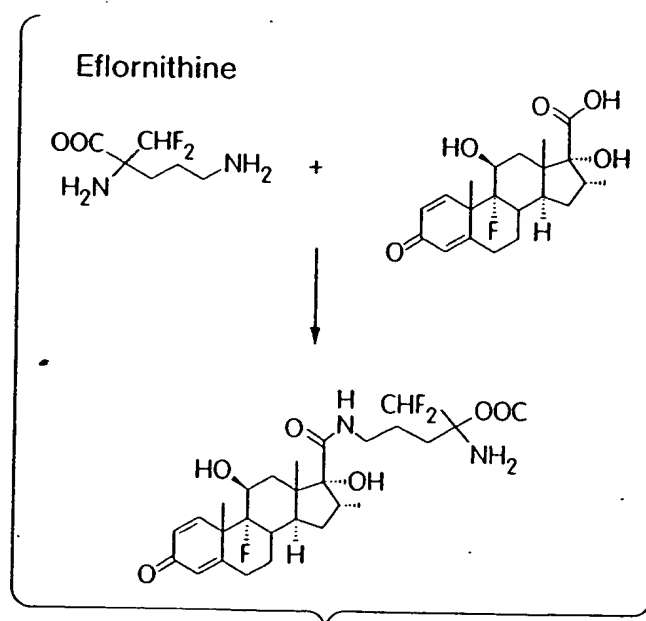


Fig. 6B

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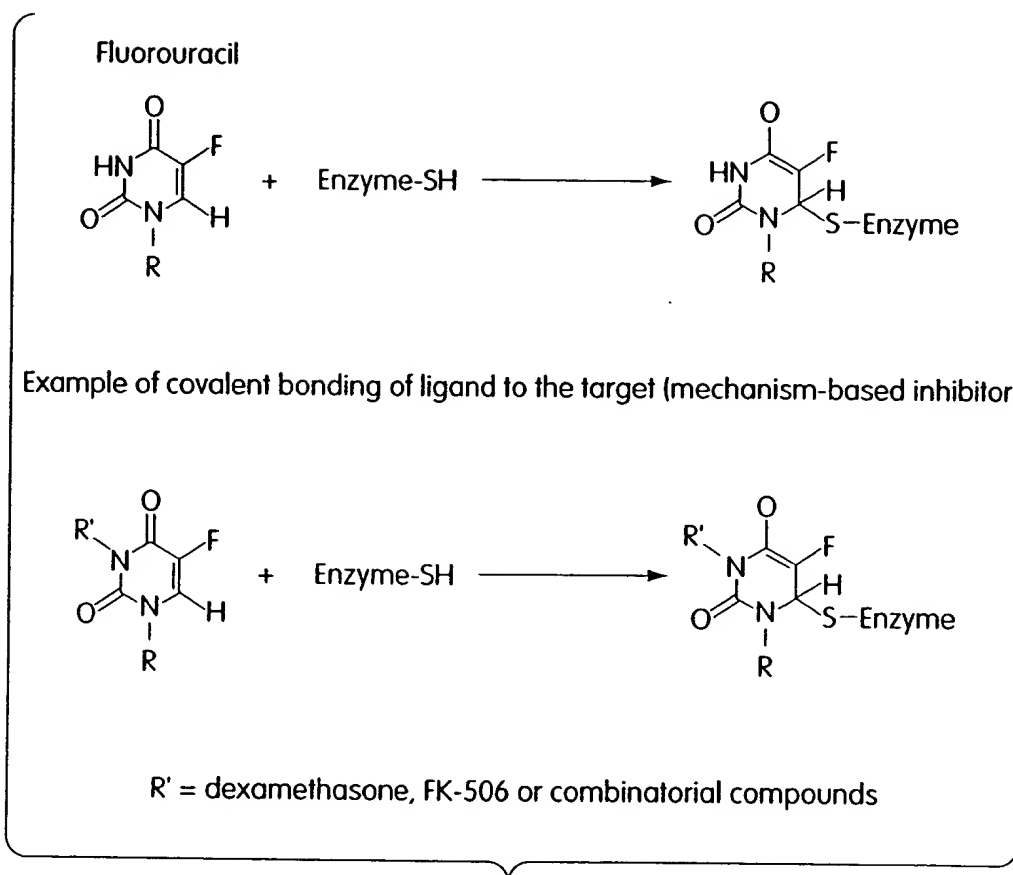
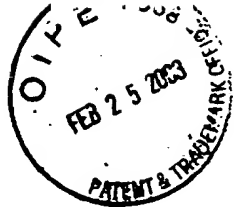


Fig. 6C

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Covalent labeling of recombinant protein in living cells with fluorescein analogs

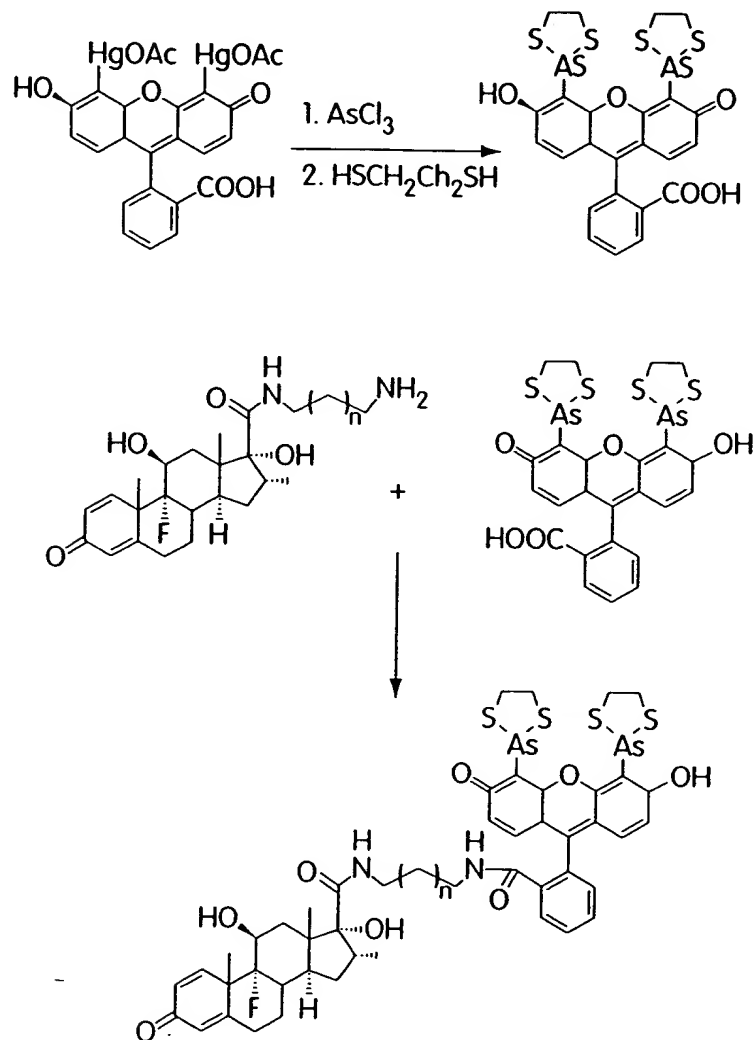


Fig. 7

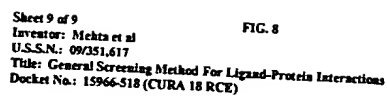
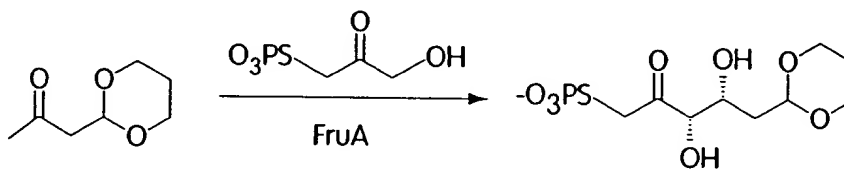


FIG. 8

Biocatalyses:enzyme mediated c-c bond formation



Fru A = fructose 1,6-bisphosphate aldolase

Fig. 8

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